

GALEMIN, I.M.; SHATILIN, A.L.

- . Drawing pig iron from the hearth before blowing out a blast furnace. Metallurg 8 no.124-6 Ja '63. (MIRA 16:1)
(Blast furnaces--Maintenance and repair)

1. The object of the work is to study the process of tapping of liquid smelting products from a blast furnace with two iron nozzles. Metallurg 10 no.2: 4-11 1966.

2. The object of the work is to study the process of tapping of liquid smelting products from a blast furnace with two iron nozzles. Metallurg 10 no.2: 4-11 1966. (MIRA 18:3)

SHATILINA, E.A.

KONDRAT'YEV, N.Ye., kandidat tekhnicheskikh nauk; ANDREYANOV, V.G.,
kandidat tekhnicheskikh nauk, redaktor; ~~SHATILINA, E.A.~~, re-
daktor; BRAYNINA, M.I., tekhnicheskiiy redaktor.

[Calculation of wind movements and changes in reservoir banks]
Raschety vetrovogo volneniia i pereformirovaniia beregov vodo-
khranilishch. Pod red. V.G.Andreianova. Leningrad, Gidrometeoro-
logicheskoe izd-vo, 1953. 106 p. [Microfilm] (MLR 8:2)
(Reservoirs) (Winds) (Waves)

KUZ'MIN, P.P., kand.geograf.nauk; SHATILINA, M.K., otv.red.; SOLOVEYCHIK, A.A.,
tekhn.red.

[Effect of forests on the thawing of snow] Vliianie lesa na
snegotaianie. Leningrad. Gidrometeor.izd-vo 1954. 67 p. (Leningrad.
Gosudarstvennyi gidrologicheskii institut. Trudy, no.42)

(MIRA 12:1)

(Thawing)

(Forest influences)

YEVGENOV, Nikolay Ivanovich; SNEZHINSKIY, V.A., redaktor; SHATILINA, M.K.,
redaktor; SOLOVEYCHIK, A.A., tekhnicheskij redaktor.

[Ocean currents] Morskie techeniya. Leningrad, Gidrometeorologicheskoe
izd-vo, 1954. 106 p. (MIRA 8:4)
(Ocean currents)

BOCHKOV, A.P., kandidat tekhnicheskikh nauk; SOKOLOVSKIY, D.L., doktor tekhnicheskikh nauk, professor, redaktor; SHATILINA, M.K., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiiy redaktor.

[Influence of forests and afforestation improvement measures on the flow of rivers in the forest steppe zone of European Russia] Vliianie lesa i agrolesomeliorativnykh meropriyatii na vodnost' rek lesostepnoi zony evropeiskoi chasti SSSR. Pod red. D.L.Sokolovskogo. Leningrad, Gidrometeorologicheskoe izd-vo, 1954. 133 p. [Microfilm] (MIRA 7:11)
(Forest influences) (Rivers)

ZAYKOV, B.D., doktor geograficheskikh nauk, professor; SHATILINA, M.K.,
redaktor; BRAYNINA, M.I., tekhnicheskiiy redaktor

[High waters and floods in rivers of the U.S.S.R. during the
historical period] Vysokie polovod'ia i pavodki na rekakh SSSR
za istoricheskoe vremia. Leningrad, Gidrometeorologicheskoe
izd-vo, 1954. 133 p. (MLRA 7:10)
(Floods)

ALEKIN, Oleg Aleksandrovich; SHATILINA, M.G., redaktor; VORONKOV, P.P.,
otvetstvennyy redaktor; FLAUM, M.Ya., tekhnicheskiiy redaktor.

[Chemical analysis of inland waters; study under stationary
conditions] Khimicheskii analiz vod sushi; pri statsionarnom
ikh izuchenii. Leningrad, Gidrometeorologicheskoe izd-vo, 1954.
199 p. (MLRA 8:2)
(Water--Analysis)

ANDREYEVA, Yekaterina Vladimirovna; KOLESNIK, S.V.; redaktor: SHATILINA,
M.K., redaktor; BRAYNINA, M.I., tekhnicheskii redaktor

[IU.M.Shokal'skii, oceanographer, meteorologist, geographer]
IU.M.Shokal'skii - okeanograf, meteorolog, geograf. Izd. 2-oe,
Leningrad, Gidrometeor. izd-vo, 1956. 52 p. (MLRA 10:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Kolesnik)
(Shokal'skii, Iulii Mikhailovich, 1856-1940)

DUVANIN, Aleksandr Ivanovich; SHEZHINSKIY, V.A., otvetstvennyy redaktor;
SHATILINA, M.K., redaktor; BRAYTINA, M.I., tekhnicheskiy redaktor

[Sea level] Uroven' moria. Leningrad, Gidrometeorologicheskoe
izd-vo, 1956. 58 p. (MIRA 10:4)
(Ocean)

POPOV, Yevgeniy Grigor'yevich; SHATILINA, M.K., red.; FLAUM, M.Ya., tekhn.
red.

[Analysis of the runoff formation of plains rivers] Analiz formiro-
vaniia stoka ravninnykh rek. Leningrad, Gidrometeor. izd-vo, 1956.
130 p. (MIRA 11:7)

(Rivers) (Runoff)

DIMAKSYAN, Artashes Movsesovich; ZBORYKIN, K.A., otvetstvennyy redaktor;
SHATILINA, M.K., redaktor; SHUMIKHIN, K.F., tekhnicheskii redaktor

[New telemetering instruments for hydrometeorological purposes]
Novye teleizmeritel'nye gidrometeorologicheskie pribory.
Leningrad, Gidrometeor. izd-vo, 1957. 135 p. (MLRA 10:5)
(Meteorological instruments) (Telemetering)

BOGOLYUBOVA, Irina Vladimirovna; ZAYKOV, B.D., doktor geograficheskikh nauk, redaktor; SHATILINA, M.K., redaktor; BRAYNINA, M.I., tekhnicheskii redaktor

[Eroding streams and their extension over the territory of the U.S.S.R.] Selevye potoki i ikh rasprostraneniye na territorii SSSR. Pod red. B.D.Zaikova. Leningrad, Gidrometeor. izd-vo, 1957. 150 s. (Erosion) (MLR 10:10)

KALININ, Genadiy Pavlovich; MAKAROVA, Tat'yana Timofeyevna; SOMOV, N.V.,
otvetstvennyy redaktor; SHATILINA, M.K., redaktor; FLAUM, M.Ya.,
tekhnicheskiiy redaktor.

[Hydrometeorological factors determining the occurrence of high
water in the flat land rivers of European Russia] Gidrometeorologi-
cheskie usloviia formirovaniia vysokogo polovod'ia na ravninnykh
reках Evropeiskoi territorii SSSR. Leningrad, Gidrometeorizd-
vo 1957. 177 p. (MLRA 10:6)

(Rivers)

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Moscow. Tsentral'nyy institut prognozov.

- Trudy. vyp. 49: Voprosy dologosrochnykh prognozov (Transactions.
v. 49: Problems in Long-range Forecasting) Leningrad,
Gidrometeoizdat, 1957. 287 p. 1,250 copies printed.

Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy
sluzhby pri Sovete Ministrov SSSR.

Ed.: (title page): Morskoy, G.I.; Ed. (inside book):
Shatilina, M.K.; Tech. Ed.: Braynina, M.I.

PURPOSE: The collection of articles is intended for specialists
in the field of weather forecasting, especially those
interested in long-term prognostication.

COVERAGE: The articles in this collection illustrate the present
position of long-range weather forecasting. The problems
discussed include the formulation of large mid-monthly

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temperature anomalies, the analysis of cycles and anti-cyclogenesis in meridional circulation and factors causing the appearance of autumnal frosts together with possibilities for forecasting them.

TABLE OF
CONTENTS:

Morskoy, G.I.; Semenov, V.G.; and Kats, A.L. Formation of
Air Temperature Anomalies on Soviet Territory in the
Winter Months

3

The authors define the term anomaly (or a larger anomaly) as a departure from a certain average climatological pattern, or, in other words, from the average temperature during a given period. The authors survey the occurrence of mean temperature anomalies during three winter months (December, January, and February) and analyze possibilities of forecasting such anomalies for one month in advance. In general, wide departures

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from average temperatures are believed to be caused by disturbances in the interrelationship between air circulation and thermal conditions at the surface layer of the atmosphere. The entire article is divided into three chapters each treating one separate factor causing the occurrence of anomalies. In the first-chapter, G.I. Morskoy states that the horizontal transfer of air masses is the main factor in the formation of average temperature anomalies. He also deduces the ratio between the zonal circulation of the atmosphere and the general thermal conditions of the atmosphere. The author suggests a new mathematical approach in calculating the mean monthly temperature anomalies for absolute topography at the 500 millibar level. In Chapter 2, V.G. Semenov analyzes the influence of the surface layer of the atmosphere on the transfer of air masses and how this transfer causes the occurrence of anomalies. In the third chapter, A.L. Kats surveys the meridional and latitudinal circulation of the atmosphere and evaluates the contribution

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of this transfer of air masses to temperature anomalies. The meridional and latitudinal circulations are calculated for a number of regions and altitudes in the Northern hemisphere. The number of focuses on the Soviet territory, where large-scale anomalies are formed during the three winter months, is found to fluctuate between 2 and 4. This article is based on the results of an analysis of 8 forecasts made on the 25th of each preceding month, for December, January and February of 1955-57. Data on forecasts were compiled separately by three different bureaus of the Central Institute of Forecasting (TSIP), viz., the long-term prediction division (ODPP), the division of dynamic meteorology (ODM), and the division for methodological improvement of forecasting service (ORUMDPP). There are 55 maps, 52 tables in the text and 24 tables in the appendix. There are 30 references, 16 of which are Soviet, 11 are English and 3 are German.

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Rafailova, Kh. Kh. Influence of the Arctic Region on the Character of Meridional Circulation of Air in Europe and Western Siberia.

181

The circulation of atmosphere in the Arctic was studied by B.P. Mul'tanovskiy. He concluded that the polar region is not a solid high-pressure zone, but, contrary to previously expressed opinions, is composed of a number of cyclonic and anticyclonic areas. Other Soviet scientists, namely B.L. Dzerdzeyevskiy and L.A. Vitel's confirmed Mul'tanovskiy's theory and proved that all circulation phenomena such as occur in moderate zones, exist also in the polar zone. The present article analyzes the effect of air circulation in the polar area on the behavior of meridional processes, carrying cold arctic air masses to temperate zones and thus bearing directly on changes in weather. Consequently, any weather forecasting in the moderate zone must account for meridional processes drifting in from the North. The author

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examines four possible types of thermobaric fields in the troposphere over the Arctic and also a number of variations. Maps accompany this analysis and provide data on absolute and relative topography at 500 millibar level for all the types involved. The author concludes that a certain definite character of the baric field in the Arctic produces a definite type of meridional movements and that thermal conditions of air masses in the Arctic are good indices for the developing synoptic situation in the moderate zone. There are 11 tables, 22 maps, and 17 references, of which 13 are Soviet and 4 are English.

Bagrov, N.A. Application of the Principle of Similarity in Forecasting Mean Monthly Air Temperatures 231

By the "principle of similarity" the author understands an attempt to trace similarities (analogies) in the development of two or more atmospheric macroprocesses. The principle can be applied in long-term forecasts when an atmospheric process bears a similarity to a process which occurred some time in the past but during the same season and in the same locality.

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The author analyzes the applications of this principle and refers to S.T. Pagova who opposed it and to L.A. Vitel's who modified it. The latter worked out a theory of rhythmicity (rhythmical recurrence) of temperature processes. Vitel's theory is given in brief, but the author of the article rejects it. The author establishes indices of similarity and demonstrates their applicability in deducing mean monthly temperatures. The data used cover a period of over 50 years and are derived from 45 unspecified geographical localities in Russia shown on an enclosed map. The percentage of correct forecasts by the principle of similarity has hardly ever exceeded 70 percent; on an average it amounted to 63.2 percent. The author urges expansion of this method of study and the inclusion of localities outside Russia. He suggests examination of other factors, such as near-surface pressure, to which the principle of similarity could be applied. There are 8 maps, 7 tables and 14 references, of which 8 are Soviet, 2 German and 4 English.

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Zverev, N.I. Influence of Ocean and Land Temperature on
Atmospheric Circulation During the Warm Season in the Far
East

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The author analyzes the influence of thermal nonuniformity of the surface layer on the atmospheric circulation and discusses some implications from observation results pertinent to weather forecasting. The author defines nonuniformity as the phenomenon of the accumulation of heat in the surface layer and the unequal distribution of this heat in latitudinal and meridional directions. The article consists of two chapters. One examines the formation of temperature contrasts between ocean and land and the other examines the question of periodicity, i.e., the existence of definite natural temperature intervals (from 6 to 12 days), and the connection of such periods with temperatures of the near-surface air layer. The subject of temperature variation was studied by personnel of the long-term forecast division of the Far Eastern Scientific Research Institute of Hydrometeorology (DV NIGMI). The Institute

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compiled daily temperature maps for sea and land in 1934-38. In addition, the author availed himself of the material collected in the archives of the Central Institute of Forecasts (TSIP). There are 12 maps, 6 tables, and 8 Soviet references.

Byalynitskaya, V.G., and Ped', D.A. Formation of Night Frosts
in Ukraine 264

The authors place night frosts in Ukraine into the category of those that are dangerous, i.e., capable of damaging crops. This type of frosts is common both in autumn and in spring, but the authors analyze only the occurrence of frosts in May. Crimea is included in this study. Tabular material includes statistics of occurrence and duration of frosts. The article analyzes the thermobaric field during the occurrence of frosts and compares it with the field when frost is absent. Pertinent

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indices are deduced and data given on how to forecast the onset of frosts one to two days in advance. There are 13 tables in the text and 2 in the appendix, 8 maps, 2 drawings, and 16 references, of which 14 are Soviet and 2 are English.

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MOLCHANOV, I.V. otvetstvennyy redaktor; ~~SHATILINA, M.K.~~, redaktor:
VLADIMIROV, O.G., tekhnicheskiiy redaktor

[Instructions for hydrometeorological stations and posts.
Nastavlenie gidrometeorologicheskim stantsiham i postam] Leningrad,
Gidrometeor. izd-vo. No.7, pt.1. [Hydrological observations of lakes
and reservoirs] Gidrologicheskie nabludeniiia na ozerakh i
vodokhranilishchakh. 1957. 239 p. (MLRA 10:5)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeoro-
logicheskoy sluzhby.
(Hydrology)

SOLOMENTSEV, Nikolay Afanas'yevich; ZVORYKIN, K.A., otvetstvennyy red.;
SHATILINA, M.K., red.; SOLOVEYCHIK, A.A., tekhn.red.

[Hydrometry] Gidrometriia. Izd. 2-oe, perer. Leningrad, Gidro-
meteor. izd-vo, 1957. 458 p. (MIRA 11:5)
(Hydrology) (Stream measurements)

POPOV, Yevgeniy Grigor'yevich; GUREVICH, M.I., otvetstvennyy redaktor;
SHATILINA, M.K., redaktor; BRAYNINA, M.I., tekhnicheskij redaktor

[Hydrological forecasts] Gidrologicheskie prognozy. Leningrad,
Gidrometeor. izd-vo, 1957. 460 p. (MLRA 13:1)
(Hydrology) (Hydrometeorology)

GINKO, Sergey Sergeyevich; IVANOV, K.Ye., otv.red.; SHATILINA, M.K.;
red.; FLAUM, M.Ya., tekhn.red.

[Principles of hydraulic engineering] Osnovy gidrotekhniki.
Leningrad, Gidrometeor. izd-vo, 1958. 362 p. (MIRA 12:1)
(Hydraulic engineering)

ZAYKOV, Boris Dmitriyevich, prof., doktor geograf.nauk; CHEBOTAREV,
A.I., otv.red.; SHA'TILINA, M.K., red.; BRAYNINA, M.I.,
tekhn.red.

[Studies in limnology] Ocherki po ozerovedeniiu. Leningrad,
Gidrometeor.izd-vo. Pt.2. 1960. 238 p. (MIRA 13:7)
(Limnology)

BRASLAVSKIY, A.P.; VIKULINA, Z.A.; CHEBOTAREV, A.I., kandidat tekhnicheskikh nauk, redaktor; SHATILINA, M.K., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiiy redaktor.

[Rates of evaporation from the surface of reservoirs] Normy ispareniia s poverkhnosti vodokhranilishch. Pod red. A.I.Chebotareva. Leningrad, Gidrometeorologicheskoe izd-vo, 1954. 211 p. (MLR 8:1)
(Reservoirs) (Evaporation)

GONCHAROV, Vitaliy Nikolayevich, professor, doktor tekhnicheskikh nauk;
CHEBOTAREV, A.I., redaktor; SHATILINA, M.K., redaktor; SOLOVEYCHIK,
A.A., tekhnicheskij redaktor; BRAYNINA, M.I., tekhnicheskij
redaktor.

[Principles of the dynamics of river-bed flow] Osnovy dinamiki
ruslovykh potokov. Leningrad, Gidrometeorologicheskoe izd-vo,
1954. 451 p. (MLRA 7:12)
(Hydraulics)

GINKO, Sergey Sergeyevich; ZVORYKIN, K.A., redaktor; SHATILINA, M.K., redaktor; FLAUM, M.Ya., tekhnicheskij redaktor.

[Water power resources of the U.S.S.R.; their investigation and utilization] Vodnoenergeticheskie bogatstva SSSR; ikh izuchenie i ispol'zovanie. Leningrad, Gidrometeorologicheskoe izd-vo, 1955. 195 p. (Hydroelectric power) (MLRA 9:6)

ALEKSEYEV, Georgiy Anisimovich, doktor tekhnicheskikh nauk; SHATILINA, M.K., redaktor; CHEBOTAREV, A.I., kandidat tekhnicheskikh nauk, redaktor; BRAYNINA, M.I., tekhnicheskiy redaktor

[Calculations of the flood runoff of rivers of the U.S.S.R.; a practical manual] Raschety pavodochnogo stoka rek SSSR; prakticheskoe posobie. Leningrad, Gidrometeorologicheskoe izd-vo, 1955. 197 p. (MLRA 9:2)

(Rivers) (Runoff)

KOMAROV, Valentin Dmitriyevich; SOLOV, N.V., redaktor; SHATILINA,
I.K., redaktor; SOLOVEYCHIK, A.A., tekhnicheskii redaktor.

[Hydrological analysis and forecasting spring floods of rivers
in flat country] Gidrologicheskii analiz i prognoz vesennego
polovod'ia ravninnykh rek. Leningrad, Gidrometeorologicheskoe
izd-vo, 1955. 303 p. (MLRA 8:11)
(Floods)

VORONKOV, Pavel Pavlovich, kandidat geograficheskikh nauk; ZAYKOV, B.D.
redaktor, doktor geograficheskikh nauk, professor; SHATILINA,
M.K., redaktor; SOLOVETCHIK, A.A., tekhnicheskii redaktor

[Formation of the chemical constitution of surface water of steppe
and wooded steppe zones of the European territories of the U.S.S.R.
Formirovaniye khimicheskogo sostava poverkhnostnykh vod steppoi
i lesostepnoi zon Evropeiskoi teritorii SSSR. Pod Red. B.D.Zaikova.
Leningrad, Gidrometeorologicheskoe izd-v, 1955. 350 p.(MLRA 8:10)
(Water--Analysis) (Steppes)

MAKAREVICH, T.N., kandidat geograficheskikh nauk; SPENGLER, O.A., kandidat geograficheskikh nauk, redaktor; SHATILINA, M.K., redaktor; FLAUM, M.Ya., redaktor

[Methodology of long-term forecasts of the freezing rivers in northwestern U.S.S.R.] Metodika dolgosrochnogo prognoza zamerzaniia rek Severo-zapada SSSR. Leningrad, Gidrometeor. izd-vo, 1956. 74 p. (Leningrad, Gosudarstvennyi gidrologicheskii institut. Trudy no.58 (112)) (MIRA 10:7)
(Ice on rivers, lakes, etc.)

VOSKRESENSKIY, Konstantin Petrovich; ANDREYANOV, V.G., redaktor; SHATILINA, M.K., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor.

[Hydrological calculations in designing installations on small rivers, creeks and seasonal streams; principal methods and practices] Gidrologicheskie raschety pri proektirovani sooruzhenii na malykh rekakh, ruch'iax i vremennykh vodotokakh; metodicheskie osnovy i praktika.. Leningrad, Gidrometeorologicheskoe izd-vo, 1956. 467 p. (MLRA 9:6)
(Hydraulic engineering)

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Popov, Yevgeniy Grigor'yevich

Gidrologicheskiye prognozy (Hydrological Forecasts) Leningrad, Gidro-meteoizdat, 1957. 460 p. 3,100 copies printed.

Resp. Ed.: Gurevich, M. I.; Ed.: Shatilina, M. K.; Tech. Ed.: Braynina, M. I.

PURPOSE: This is a textbook for hydrometeorological tekhnikums and is approved by the Main Administration of the Hydro-meteorological Service (UGMS).

COVERAGE: The book discusses the Soviet hydrological forecast service and its importance to the national economy and for defense. It also evaluates the hydropotential of Russian rivers. Main emphasis is put on long-term forecasting of ice and water level conditions. The following outstanding hydro-

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logists of the last 25 years are mentioned: Apollov, B.A.; Velikanov, M.A.; L'vovich, M.I.; Ogiyevskiy, A V.; Bregman, G.R.; Kalinin, G.P.; Vangengeym, G.Ya.; Belinkov, S.Ya.; Gurevich, M.I.; Davydov, L.K.; Komarov, V.D.; Piotrovich, V.V.; and Shulyakovskiy, L.G.

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May 26, 1958

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Gas engine operating on natural gas. Energ.biol. no.11:18-23 N '53.

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(Gas and oil engines)

SHATILOV, A. L.

AID P - 2380

Subject : USSR/Engineering

Card 1/1 Pub 28 - 1/7

Author : Shatilov, A. I.

Title : Gas generating installation with 135 HP engine

Periodical : Energ. byul., 7, 1-10, J1 1955

Abstract : This is an account of the newly designed 6GCh-18/26 stationary engine (6-cylinder, 135 HP and 750 rpm) operating on gas produced from either wood or anthracite. The gas-generating attachments are described with diagrams. The tests conducted on both apparatuses are fully presented and illustrated in graphs and tables.

Institution: Central Diesel Scientific Research Institute (TsNIDI).

Submitted : No date

SHATILOV, A.I., inzhener.

Utilizing the heat from the cooling water and exhaust gases of
internal combustion engines. Energomashinostroyeniye no.6:26-27
Jc '56. (Waste heat) (MIRA 9:9)

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(Lubrication and lubricants)

SHATILOV

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